MICROCOMPUTER BASED ECTRONIC TRIP SYSTEM FOR CI BREAKERS.

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EP0440764 (B1)

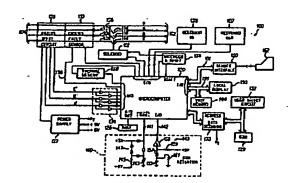
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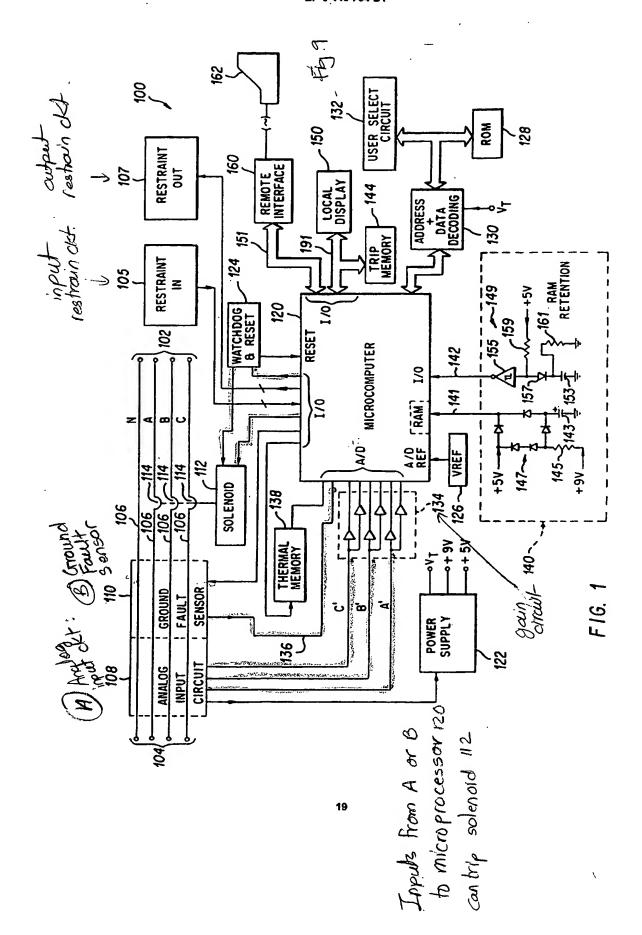
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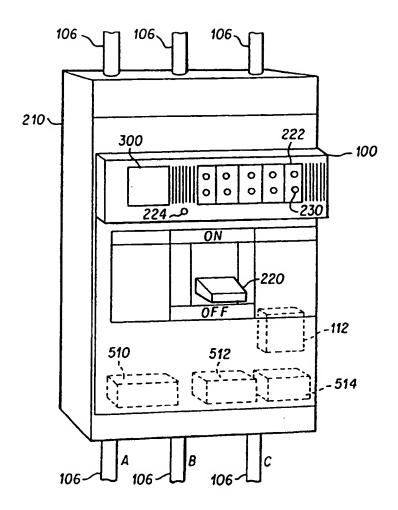
Abstract not available for EP0440764 Abstract of correspondent: US5136458

A processor-based tripping system uses a precise three phase current detection circuit using a minimal number of components. A set of current sensors is situated adjacent the current path to sense respective phases of current therein. The current sensors provide respective current signals therefrom which are fed to a ground fault transformer. The ground fault transformer includes input inductors connected to respective ones of the current sensors such that current flowing through each respective current sensor also flows through one of the input inductors. An output inductor in the ground fault transformer is coupled with the input inductors for adding the current signals from the current sensors and for producing an output current signal in the presence of a ground fault. The output current signal is then rectified to provide a rectified signal corresponding to the output current. The processor receives the rectified signal to detect the ground fault in the three phase current path and provides a trip signal to a solenoid to break the current path. The ground fault transformer also includes a test input inductor for receiving an external AC signal to simulate a ground fault.

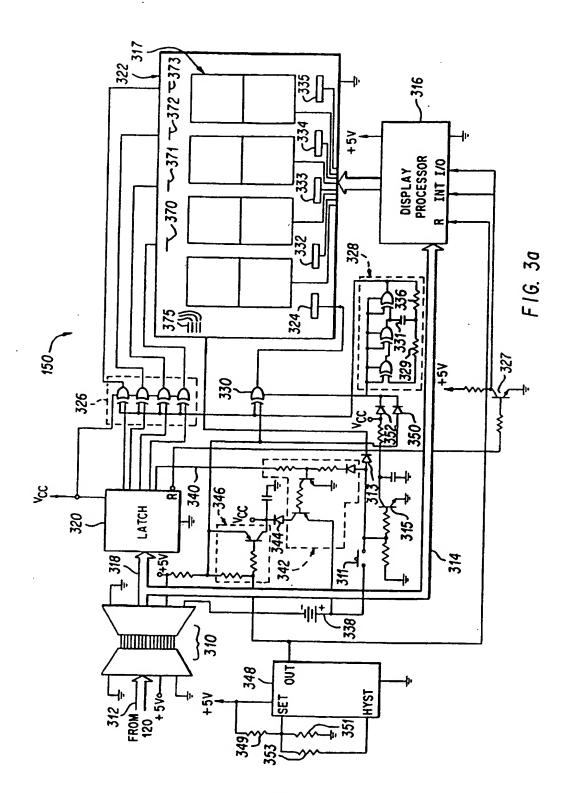


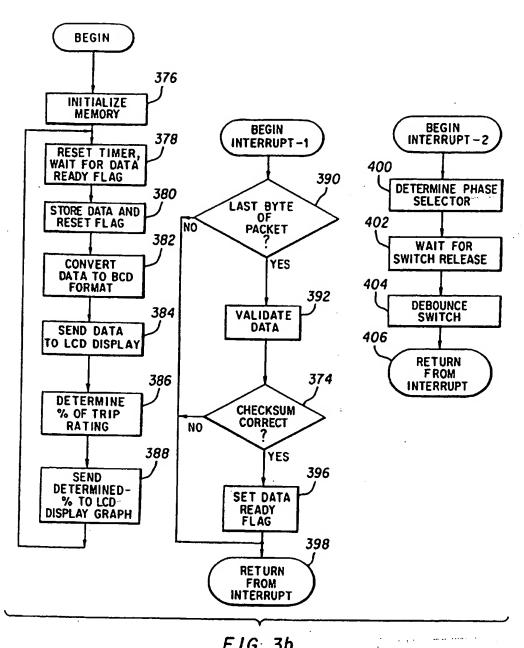
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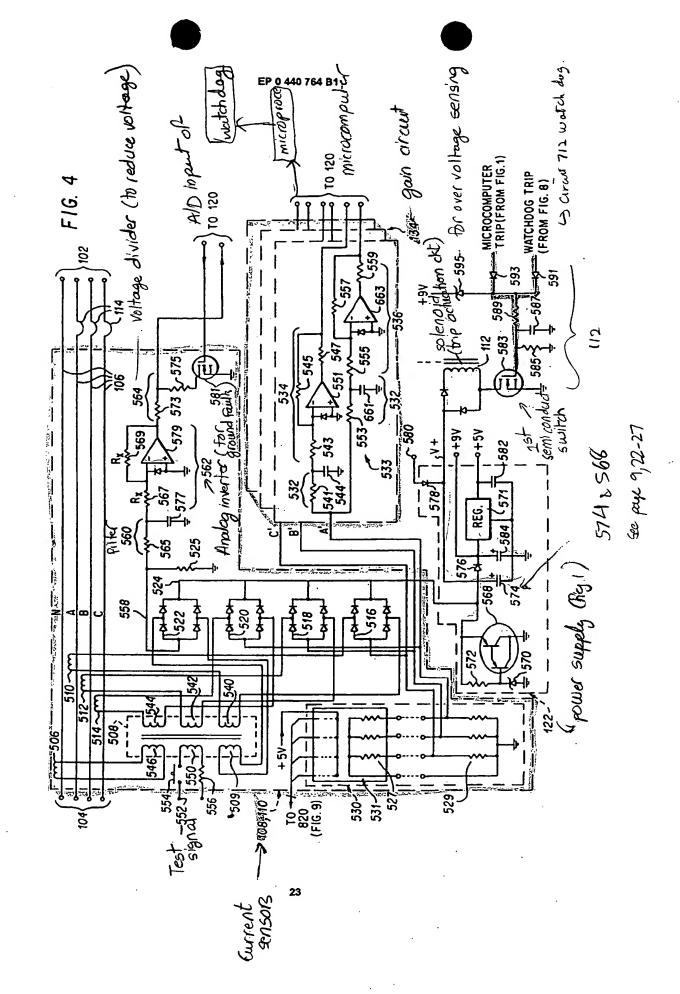


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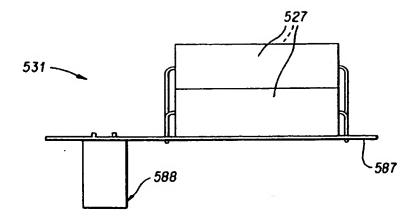




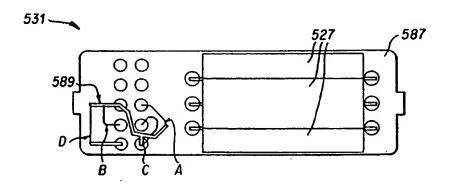
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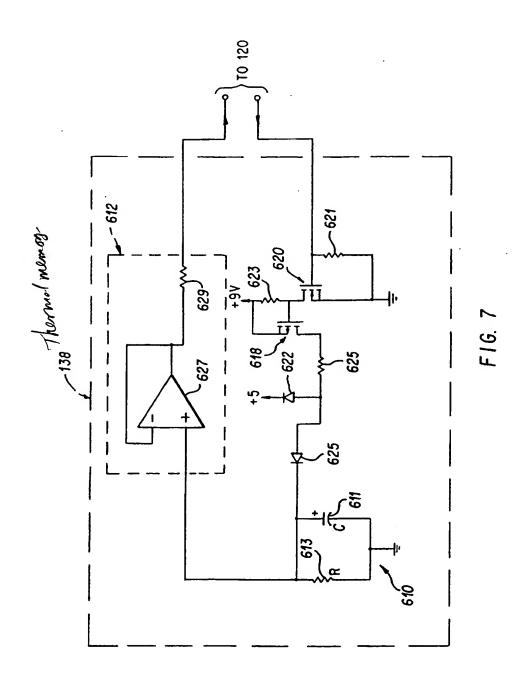




F 1 G. 6a



F 1 G. 6b



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